

INFO Rec'd PGHP70 20 JUL 2006

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## SEQUENCE LISTING

&lt;110&gt; FIVE PRIME THERAPEUTICS INC.

<120> PHARMACEUTICAL COMPOSITIONS CONTAINING ANTAGONISTS TO  
LRP4, LRP8 OR MEGALIN FOR TREATMENT OF DISEASES

&lt;130&gt; 8940-0033.00304

&lt;140&gt; PCT/US05/01883

&lt;141&gt; 2005-01-21

&lt;150&gt; 60/538,322

&lt;151&gt; 2004-01-21

&lt;160&gt; 127

&lt;170&gt; PatentIn Ver. 3.3

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&lt;210&gt; 28

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 28

Cys	Asn	Val	Asn	Asn	Gly	Gly	Cys	Ala	Gln	Lys	Cys	Gln	Met	Val	Arg
1				5					10					15	

Gly	Ala	Val	Gln	Cys	Thr	Cys	His	Thr	Gly	Tyr	Arg	Leu	Thr	Glu	Asp
			20					25					30		

Gly	His	Thr	Cys
			35

&lt;210&gt; 29

&lt;211&gt; 38

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 29

Cys	Ala	Met	Glu	Asn	Gly	Gly	Cys	Ser	His	Leu	Cys	Leu	Arg	Ser	Pro
1				5					10					15	

Asn	Pro	Ser	Gly	Phe	Ser	Cys	Thr	Cys	Pro	Thr	Gly	Ile	Asn	Leu	Leu
			20					25					30		

Ser	Asp	Gly	Lys	Thr	Cys
					35

&lt;210&gt; 30

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 30

Cys	Gly	Ser	Arg	Asn	Gly	Gly	Cys	Ser	His	Leu	Cys	Leu	Pro	Arg	Pro
1				5					10					15	

Ser	Gly	Phe	Ser	Cys	Ala	Cys	Pro	Thr	Gly	Ile	Gln	Leu	Lys	Gly	Asp
			20					25					30		

Gly	Lys	Thr	Cys
			35

<210> 31  
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 <212> PRT  
 <213> Homo sapiens

<400> 31  
 Leu Cys Asn Gly Val Asn Asp Cys Gly Asp Asn Ser Asp Glu Ser Pro  
           1                  5                  10                  15  
 Gln Gln Asn Cys Arg Pro  
                   20

<210> 32  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 32  
 Glu Leu Val Phe Trp Ser Asp Val Thr Leu Asp Arg Ile Leu Arg Ala  
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 Asn Leu Asn Gly Ser Asn Val Glu Glu Val Val Ser Thr Gly Leu Glu  
                   20                  25                  30  
 Ser Pro Gly Gly Leu Ala Val Asp Trp Val  
           35                  40

<210> 33  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 33  
 Asp Lys Leu Tyr Trp Thr Asp Ser Gly Thr Ser Arg Ile Glu Val Ala  
           1                  5                  10                  15  
 Asn Leu Asp Gly Ala His Arg Lys Val Leu Leu Trp Gln Asn Leu Glu  
           20                  25                  30  
 Lys Pro Arg Ala Ile Ala Leu His Pro Met  
           35                  40

<210> 34  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 34  
 Gly Thr Ile Tyr Trp Thr Asp Trp Gly Asn Thr Pro Arg Ile Glu Ala  
           1                  5                  10                  15  
 Ser Ser Met Asp Gly Ser Gly Arg Arg Ile Ile Ala Asp Thr His Leu  
           20                  25                  30

Phe Trp Pro Asn Gly Leu Thr Ile Asp Tyr Ala  
           35                                  40

<210> 35  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 35  
 Arg Arg Met Tyr Trp Val Asp Ala Lys His His Val Ile Glu Arg Ala  
   1                          5                          10                          15

Asn Leu Asp Gly Ser His Arg Lys Ala Val Ile Ser Gln Gly Leu Pro  
                   20                          25                          30

His Pro Phe Ala Ile Thr Val Phe Glu  
           35                                  40

<210> 36  
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 <212> PRT  
 <213> Homo sapiens

<400> 36  
 Asp His Val Tyr Trp Thr Asp Val Ser Thr Asp Thr Ile Ser Arg Ala  
   1                          5                          10                          15

Lys Trp Asp Gly Thr Gly Gln Glu Val Val Val Asp Thr Ser Leu Glu  
                   20                          25                          30

Ser Pro Ala Gly Leu Ala Ile Asp Trp Val  
           35                                  40

<210> 37  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 37  
 Asn Lys Leu Tyr Trp Thr Asp Ala Gly Thr Asp Arg Ile Glu Val Ala  
   1                          5                          10                          15

Asn Thr Asp Gly Ser Met Arg Thr Val Leu Ile Trp Glu Asn Leu Asp  
                   20                          25                          30

Arg Pro Arg Asp Ile Val Val Glu Pro Met  
           35                                  40

<210> 38  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

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<400> 38

Gly Tyr Met Tyr Trp Thr Asp Trp Gly Ala Ser Pro Lys Ile Glu Arg  
1 5 10 15

Ala Gly Met Asp Ala Ser Gly Arg Gln Val Ile Ile Ser Ser Asn Leu  
20 25 30

Thr Trp Pro Asn Gly Leu Ala Ile Asp Tyr Gly  
35 40

<210> 39

<211> 40

<212> PRT

<213> Homo sapiens

<400> 39

Gln Arg Leu Tyr Trp Ala Asp Ala Gly Met Lys Thr Ile Glu Phe Ala  
1 5 10 15

Gly Leu Asp Gly Ser Lys Arg Lys Val Leu Ile Gly Ser Gln Leu Pro  
20 25 30

His Pro Phe Gly Leu Thr Leu Tyr  
35 40

<210> 40

<211> 42

<212> PRT

<213> Homo sapiens

<400> 40

Glu Arg Ile Tyr Trp Thr Asp Trp Gln Thr Lys Ser Ile Gln Ser Ala  
1 5 10 15

Asp Arg Leu Thr Gly Leu Asp Arg Glu Thr Leu Gln Glu Asn Leu Glu  
20 25 30

Asn Leu Met Asp Ile His Val Phe His Arg  
35 40

<210> 41

<211> 42

<212> PRT

<213> Homo sapiens

<400> 41

Gly Lys Val Tyr Trp Ser Asp Ser Thr Leu His Arg Ile Ser Arg Ala  
1 5 10 15

Asn Leu Asp Gly Ser Gln His Glu Asp Ile Ile Thr Thr Gly Leu Gln  
20 25 30

Thr Thr Asp Gly Leu Ala Val Asp Ala Ile  
35 40

<210> 42  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 42  
 Arg Lys Val Tyr Trp Thr Asp Thr Gly Thr Asn Arg Ile Glu Val Gly  
           1                  5                  10                  15  
 Asn Leu Asp Gly Ser Met Arg Lys Val Leu Val Trp Gln Asn Leu Asp  
                   20                  25                  30  
 Ser Pro Arg Ala Ile Val Leu Tyr His Glu  
                   35                  40

<210> 43  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 43  
 Gly Phe Met Tyr Trp Thr Asp Trp Gly Glu Asn Ala Lys Leu Glu Arg  
           1                  5                  10                  15  
 Ser Gly Met Asp Gly Ser Asp Arg Ala Val Leu Ile Asn Asn Asn Leu  
                   20                  25                  30  
 Gly Trp Pro Asn Gly Leu Thr Val Asp Lys Ala  
                   35                  40

<210> 44  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 44  
 Ser Gln Leu Leu Trp Ala Asp Ala His Thr Glu Arg Ile Glu Ala Ala  
           1                  5                  10                  15  
 Asp Leu Asn Gly Ala Asn Arg His Thr Leu Val Ser Pro Val Gln His  
                   20                  25                  30  
 Pro Tyr Gly Leu Thr Leu  
                   35

<210> 45  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 45  
 Gly Lys Val Tyr Tyr Thr Asp Val Phe Leu Asp Val Ile Arg Arg Ala  
           1                  5                  10                  15



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Asp Leu Asn Gly Ser Asn Met Glu Thr Val Ile Gly Arg Gly Leu Lys  
20 25 30

Thr Thr Asp Gly Leu Ala Val Asp Trp Val  
35 40

<210> 46

<211> 42

<212> PRT

<213> Homo sapiens

<400> 46

Arg Asn Leu Tyr Trp Thr Asp Thr Gly Arg Asn Thr Ile Glu Ala Ser  
1 5 10 15

Arg Leu Asp Gly Ser Cys Arg Lys Val Leu Ile Asn Asn Ser Leu Asp  
20 25 30

Glu Pro Arg Ala Ile Ala Val Phe Pro Arg  
35 40

<210> 47

<211> 43

<212> PRT

<213> Homo sapiens

<400> 47

Gly Tyr Leu Phe Trp Thr Asp Trp Gly His Ile Ala Lys Ile Glu Arg  
1 5 10 15

Ala Asn Leu Asp Gly Ser Glu Arg Lys Val Leu Ile Asn Thr Asp Leu  
20 25 30

Gly Trp Pro Asn Gly Leu Thr Leu Asp Tyr Asp  
35 40

<210> 48

<211> 37

<212> PRT

<213> Homo sapiens

<400> 48

Arg Arg Ile Tyr Trp Val Asp Ala His Leu Asp Arg Ile Glu Ser Ala  
1 5 10 15

Asp Leu Asn Gly Lys Leu Arg Gln Val Leu Val Gly His Val Ser His  
20 25 30

Pro Phe Ala Leu Thr  
35

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<210> 49  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 49  
Cys Ser Asp Phe Asn Gly Gly Cys Thr His Glu Cys Val Gln Glu Pro  
1 5 10 15  
Phe Gly Ala Lys Cys Leu Cys Pro Leu Gly Phe Leu Leu Ala Asn Asp  
20 25 30  
Ser Lys Thr Cys  
35

<210> 50  
<211> 35  
<212> PRT  
<213> Homo sapiens

<400> 50  
Cys Asp Ile Leu Gly Ser Cys Ser Gln His Cys Tyr Asn Met Arg Gly  
1 5 10 15  
Ser Phe Arg Cys Ser Cys Asp Thr Gly Tyr Met Leu Glu Ser Asp Gly  
20 25 30  
Arg Thr Cys  
35

<210> 51  
<211> 37  
<212> PRT  
<213> Homo sapiens

<400> 51  
Cys Leu Glu Asn Asn Gly Gly Cys Ser His Leu Cys Phe Ala Leu Pro  
1 5 10 15  
Gly Leu His Thr Pro Lys Cys Asp Cys Ala Phe Gly Thr Leu Gln Ser  
20 25 30  
Asp Gly Lys Asn Cys  
35

<210> 52  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 52  
Cys Thr Glu Met Pro Phe Val Cys Ser Gln Lys Cys Glu Asn Val Ile  
1 5 10 15

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Gly Ser Tyr Ile Cys Lys Cys Ala Pro Gly Tyr Leu Arg Glu Pro Asp  
20 25 30

Gly Lys Thr Cys  
35

<210> 53  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 53  
Cys Met His Gly Gly Asn Cys Tyr Phe Asp Glu Thr Asp Leu Pro Lys  
1 5 10 15

Cys Lys Cys Pro Ser Gly Tyr Thr Gly Lys Tyr Cys  
20 25

<210> 54  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 54  
Gln Glu Cys Asp Ser Ala His Phe Arg Cys Gly Ser Gly His Cys Ile  
1 5 10 15

Pro Ala Asp Trp Arg Cys Asp Gly Thr Lys Asp Cys Ser Asp Asp Ala  
20 25 30

Asp Glu Ile Gly Cys Ala Val  
35

<210> 55  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 55  
Val Thr Cys Gln Gln Gly Tyr Phe Lys Cys Gln Ser Glu Gly Gln Cys  
1 5 10 15

Ile Pro Ser Ser Trp Val Cys Asp Gln Asp Gln Asp Cys Asp Asp Gly  
20 25 30

Ser Asp Glu Arg Gln Asp Cys Ser Gln  
35 40

<210> 56  
<211> 39  
<212> PRT  
<213> Homo sapiens

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<400> 56

Ser Thr Cys Ser Ser His Gln Ile Thr Cys Ser Asn Gly Gln Cys Ile  
1 5 10 15

Pro Ser Glu Tyr Arg Cys Asp His Val Arg Asp Cys Pro Asp Gly Ala  
20 25 30

Asp Glu Asn Asp Cys Gln Tyr  
35

<210> 57

<211> 37

<212> PRT

<213> Homo sapiens

<400> 57

Pro Thr Cys Glu Gln Leu Thr Cys Asp Asn Gly Ala Cys Tyr Asn Thr  
1 5 10 15

Ser Gln Lys Cys Asp Trp Lys Val Asp Cys Arg Asp Ser Ser Asp Glu  
20 25 30

Ile Asn Cys Thr Glu  
35

<210> 58

<211> 37

<212> PRT

<213> Homo sapiens

<400> 58

Cys Leu His Asn Glu Phe Ser Cys Gly Asn Gly Glu Cys Ile Pro Arg  
1 5 10 15

Ala Tyr Val Cys Asp His Asp Asn Asp Cys Gln Asp Gly Ser Asp Glu  
20 25 30

His Ala Cys Asn Tyr  
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<210> 59

<211> 39

<212> PRT

<213> Homo sapiens

<400> 59

Pro Thr Cys Gly Gly Tyr Gln Phe Thr Cys Pro Ser Gly Arg Cys Ile  
1 5 10 15

Tyr Gln Asn Trp Val Cys Asp Gly Glu Asp Asp Cys Lys Asp Asn Gly  
20 25 30

Asp Glu Asp Gly Cys Glu Ser  
35

<210> 60  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 60  
 His Lys Cys Ser Pro Arg Glu Trp Ser Cys Pro Glu Ser Gly Arg Cys  
 1 5 10 15  
 Ile Ser Ile Tyr Lys Val Cys Asp Gly Ile Leu Asp Cys Pro Gly Arg  
 20 25 30  
 Glu Asp Glu Asn Asn Thr Ser Thr Gly Lys Tyr Cys Ser Met  
 35 40 45

<210> 61  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 61  
 Glu Gln Cys Gly Leu Phe Ser Phe Pro Cys Lys Asn Gly Arg Cys Val  
 1 5 10 15  
 Pro Asn Tyr Tyr Leu Cys Asp Gly Val Asp Asp Cys His Asp Asn Ser  
 20 25 30  
 Asp Glu Gln Leu Cys Gly Thr  
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<210> 62  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 62  
 Asn Thr Cys Ser Ser Ser Ala Phe Thr Cys Gly His Gly Glu Cys Ile  
 1 5 10 15  
 Pro Ala His Trp Arg Cys Asp Lys Arg Asn Asp Cys Val Asp Gly Ser  
 20 25 30  
 Asp Glu His Asn Cys Pro Thr  
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<210> 63  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 63  
 Ala Ser Cys Leu Asp Thr Gln Tyr Thr Cys Asp Asn His Gln Cys Ile  
 1 5 10 15

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Ser Lys Asn Trp Val Cys Asp Thr Asp Asn Asp Cys Gly Asp Gly Ser  
20 25 30

Asp Glu Lys Asn Cys Asn Ser  
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<210> 64  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 64  
Glu Thr Cys Gln Pro Ser Gln Phe Asn Cys Pro Asn His Arg Cys Ile  
1 5 10 15

Asp Leu Ser Phe Val Cys Asp Gly Asp Lys Asp Cys Val Asp Gly Ser  
20 25 30

Asp Glu Val Gly Cys Val  
35

<210> 65  
<211> 40  
<212> PRT  
<213> Homo sapiens

<400> 65  
Leu Asn Cys Thr Ala Ser Gln Phe Lys Cys Ala Ser Gly Asp Lys Cys  
1 5 10 15

Ile Gly Val Thr Asn Arg Cys Asp Gly Val Phe Asp Cys Ser Asp Asn  
20 25 30

Ser Asp Glu Ala Gly Cys Pro Thr  
35 40

<210> 66  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 66  
Gly Met Cys His Ser Asp Glu Phe Gln Cys Gln Glu Asp Gly Ile Cys  
1 5 10 15

Ile Pro Asn Phe Trp Glu Cys Asp Gly His Pro Asp Cys Leu Tyr Gly  
20 25 30

Ser Asp Glu His Asn Ala Cys Val Pro  
35 40

<210> 67  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 67  
 Lys Thr Cys Pro Ser Ser Tyr Phe His Cys Asp Asn Gly Asn Cys Ile  
           1                  5                  10                  15  
 His Arg Ala Trp Leu Cys Asp Arg Asp Asn Asp Cys Gly Asp Met Ser  
                   20                  25                  30  
 Asp Glu Lys Asp Cys Pro Thr  
                   35

<210> 68  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 68  
 Phe Arg Cys Pro Ser Trp Gln Trp Gln Cys Leu Gly His Asn Ile Cys  
           1                  5                  10                  15  
 Val Asn Leu Ser Val Val Cys Asp Gly Ile Phe Asp Cys Pro Asn Gly  
                   20                  25                  30  
 Thr Asp Glu Ser Pro Leu Cys Asn Gly  
                   35                  40

<210> 69  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 69  
 Glu Arg Cys Gly Ala Ser Ser Phe Thr Cys Ser Asn Gly Arg Cys Ile  
           1                  5                  10                  15  
 Ser Glu Glu Trp Lys Cys Asp Asn Asp Asn Asp Cys Gly Asp Gly Ser  
                   20                  25                  30  
 Asp Glu Met Glu Ser Val Cys Ala Leu  
                   35                  40

<210> 70  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 70  
 His Thr Cys Ser Pro Thr Ala Phe Thr Cys Ala Asn Gly Arg Cys Val  
           1                  5                  10                  15

Asp Glu Ala Gly Cys Leu Phe  
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<210> 71
<211> 42
<212> PRT
<213> Homo sapiens
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<400> 71
Arg Asp Cys Asn Ala Thr Thr Glu Phe Met Cys Asn Asn Arg Arg Cys
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Ile Pro Arg Glu Phe Ile Cys Asn Gly Val Asp Asn Cys His Asp Asn
 20                    25                30
Asn Thr Ser Asp Glu Lys Asn Cys Pro Asp
 35                      40

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<210> 72
<211> 42
<212> PRT
<213> Homo sapiens
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<400> 72
Arg Thr Cys Gln Ser Gly Tyr Thr Lys Cys His Asn Ser Asn Ile Cys
 1          5          10          15
Ile Pro Arg Val Tyr Leu Cys Asp Gly Asp Asn Asp Cys Gly Asp Asn
          20          25          30
Ser Asp Glu Asn Pro Thr Tyr Cys Thr Thr
 35          40

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<210> 73
<211> 40
<212> PRT
<213> Homo sapiens
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<400> 73
His Thr Cys Ser Ser Ser Glu Phe Gln Cys Ala Ser Gly Arg Cys Ile
  1                      5              10              15
Pro Gln His Trp Tyr Cys Asp Gln Glu Thr Asp Cys Phe Asp Ala Ser
          20              25              30
Asp Glu Pro Ala Ser Cys Gly His
    35              40

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<210> 74  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 74  
 Arg Thr Cys Leu Ala Asp Glu Phe Lys Cys Asp Gly Gly Arg Cys Ile  
 1 5 10 15  
 Pro Ser Glu Trp Ile Cys Asp Gly Asp Asn Asp Cys Gly Asp Met Ser  
 20 25 30  
 Asp Glu Asp Lys Arg His Gln Cys Gln Asn  
 35 40

<210> 75  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 75  
 Gln Asn Cys Ser Asp Ser Glu Phe Leu Cys Val Asn Asp Arg Pro Pro  
 1 5 10 15  
 Asp Arg Arg Cys Ile Pro Gln Ser Trp Val Cys Asp Gly Asp Val Asp  
 20 25 30  
 Cys Thr Asp Gly Tyr Asp Glu Asn Gln Asn Cys Thr Arg  
 35 40 45

<210> 76  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 76  
 Arg Thr Cys Ser Glu Asn Glu Phe Thr Cys Gly Tyr Gly Leu Cys Ile  
 1 5 10 15  
 Pro Lys Ile Phe Arg Cys Asp Arg His Asn Asp Cys Gly Asp Tyr Ser  
 20 25 30  
 Asp Glu Arg Gly Cys Leu Tyr  
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<210> 77  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 77  
 Gln Thr Cys Gln Gln Asn Gln Phe Thr Cys Gln Asn Gly Arg Cys Ile  
 1 5 10 15

Ser Lys Thr Phe Val Cys Asp Glu Asp Asn Asp Cys Gly Asp Gly Ser  
                   20                  25                  30

Asp Glu Leu Met His Leu Cys His Thr  
           35                  40

<210> 78  
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 <212> PRT  
 <213> Homo sapiens

<400> 78  
 Pro Thr Cys Pro Pro His Glu Phe Lys Cys Asp Asn Gly Arg Cys Ile  
   1                  5                  10                  15

Glu Met Met Lys Leu Cys Asn His Leu Asp Asp Cys Leu Asp Asn Ser  
                   20                  25                  30

Asp Glu Lys Gly Cys Gly Ile  
           35

<210> 79  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 79  
 Pro Met Cys Ser Ser Thr Gln Phe Leu Cys Ala Asn Asn Glu Lys Cys  
   1                  5                  10                  15

Ile Pro Ile Trp Trp Lys Cys Asp Gly Gln Lys Asp Cys Ser Asp Gly  
                   20                  25                  30

Ser Asp Glu Leu Ala Leu Cys Pro Gln  
           35                  40

<210> 80  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 80  
 Arg Phe Cys Arg Leu Gly Gln Phe Gln Cys Ser Asp Gly Asn Cys Thr  
   1                  5                  10                  15

Ser Pro Gln Thr Leu Cys Asn Ala His Gln Asn Cys Pro Asp Gly Ser  
                   20                  25                  30

Asp Glu Asp Arg Leu Leu Cys Glu Asn  
           35                  40

<210> 81  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 81  
 His His Cys Asp Ser Asn Glu Trp Gln Cys Ala Asn Lys Arg Cys Ile  
     1                    5                    10                    15  
 Pro Glu Ser Trp Gln Cys Asp Thr Phe Asn Asp Cys Glu Asp Asn Ser  
                     20                    25                    30  
 Asp Glu Asp Ser Ser His Cys Ala Ser  
             35                    40

<210> 82  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 82  
 Arg Thr Cys Arg Pro Gly Gln Phe Arg Cys Ala Asn Gly Arg Cys Ile  
     1                    5                    10                    15  
 Pro Gln Ala Trp Lys Cys Asp Val Asp Asn Asp Cys Gly Asp His Ser  
                     20                    25                    30  
 Asp Glu Pro Ile Glu Glu Cys Met Ser  
             35                    40

<210> 83  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 83  
 Glu Phe Ser Cys Lys Thr Asn Tyr Arg Cys Ile Pro Lys Trp Ala Val  
     1                    5                    10                    15  
 Cys Asn Gly Val Asp Asp Cys Arg Asp Asn Ser Asp Glu Gln Gly Cys  
                     20                    25                    30  
 Glu Glu

<210> 84  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 84  
 Arg Thr Cys His Pro Val Gly Asp Phe Arg Cys Lys Asn His His Cys  
     1                    5                    10                    15

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Ile Pro Leu Arg Trp Gln Cys Asp Gly Gln Asn Asp Cys Gly Asp Asn  
20 25 30

Ser Asp Glu Glu Asn Cys Ala Pro  
35 40

<210> 85

<211> 39

<212> PRT

<213> Homo sapiens

<400> 85

Arg Glu Cys Thr Glu Ser Glu Phe Arg Cys Val Asn Gln Gln Cys Ile  
1 5 10 15

Pro Ser Arg Trp Ile Cys Asp His Tyr Asn Asp Cys Gly Asp Asn Ser  
20 25 30

Asp Glu Arg Asp Cys Glu Met  
35

<210> 86

<211> 39

<212> PRT

<213> Homo sapiens

<400> 86

Arg Thr Cys His Pro Glu Tyr Phe Gln Cys Thr Ser Gly His Cys Val  
1 5 10 15

His Ser Glu Leu Lys Cys Asp Gly Ser Ala Asp Cys Leu Asp Ala Ser  
20 25 30

Asp Glu Ala Asp Cys Pro Thr  
35

<210> 87

<211> 41

<212> PRT

<213> Homo sapiens

<400> 87

Ala Tyr Cys Gln Ala Thr Met Phe Glu Cys Lys Asn His Val Cys Ile  
1 5 10 15

Pro Pro Tyr Trp Lys Cys Asp Gly Asp Asp Asp Cys Gly Asp Gly Ser  
20 25 30

Asp Glu Glu Leu His Leu Cys Leu Asp  
35 40

<210> 88  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 88  
 Val Pro Cys Asn Ser Pro Asn Arg Phe Arg Cys Asp Asn Asn Arg Cys  
 1 5 10 15  
 Ile Tyr Ser His Glu Val Cys Asn Gly Val Asp Asp Cys Gly Asp Gly  
 20 25 30  
 Thr Asp Glu Thr Glu Glu His Cys Arg Lys  
 35 40

<210> 89  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 89  
 Lys Pro Cys Thr Glu Tyr Glu Tyr Lys Cys Gly Asn Gly His Cys Ile  
 1 5 10 15  
 Pro His Asp Asn Val Cys Asp Asp Ala Asp Asp Cys Gly Asp Trp Ser  
 20 25 30  
 Asp Glu Leu Gly Cys Asn Lys  
 35

<210> 90  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 90  
 Gln Arg Val Phe Trp Thr Asp Thr Val Gln Asn Lys Val Phe Ser Val  
 1 5 10 15  
 Asp Ile Asn Gly Leu Asn Ile Gln Glu Val Leu Asn Val Ser Val Glu  
 20 25 30  
 Thr Pro Glu Asn Leu Ala Val Asp Trp Val  
 35 40

<210> 91  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 91  
 Asn Lys Ile Tyr Leu Val Glu Thr Lys Val Asn Arg Ile Asp Met Val  
 1 5 10 15

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Asn Leu Asp Gly Ser Tyr Arg Val Thr Leu Ile Thr Glu Asn Leu Gly  
20 25 30

His Pro Arg Gly Ile Ala Val Asp Pro Thr  
35 40

<210> 92  
<211> 46  
<212> PRT  
<213> Homo sapiens

<400> 92  
Gly Tyr Leu Phe Phe Ser Asp Trp Glu Ser Leu Ser Gly Glu Pro Lys  
1 5 10 15

Leu Glu Arg Ala Phe Met Asp Gly Ser Asn Arg Lys Asp Leu Val Lys  
20 25 30

Thr Lys Leu Gly Trp Pro Ala Gly Val Thr Leu Asp Met Ile  
35 40 45

<210> 93  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 93  
Ser Thr Ile Phe Phe Ser Asp Met Ser Lys His Met Ile Phe Lys Gln  
1 5 10 15

Lys Ile Asp Gly Thr Gly Arg Glu Ile Leu Ala Ala Asn Arg Val Glu  
20 25 30

Asn Val Glu Ser Leu Ala Phe Asp Trp Ile  
35 40

<210> 94  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 94  
Lys Asn Leu Tyr Trp Thr Asp Ser His Tyr Lys Ser Ile Ser Val Met  
1 5 10 15

Arg Leu Ala Asp Lys Thr Arg Arg Thr Val Val Gln Tyr Leu Asn Asn  
20 25 30

Pro Arg Ser Val Val Val His Pro Phe  
35 40

<210> 95  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 95  
 Gly Tyr Leu Phe Phe Thr Asp Trp Phe Arg Pro Ala Lys Ile Met Arg  
   1                  5                  10                  15  
 Ala Trp Ser Asp Gly Ser His Leu Leu Pro Val Ile Asn Thr Thr Leu  
                   20                  25                  30  
 Gly Trp Pro Asn Gly Leu Ala Ile Asp Trp Ala  
           35                  40

<210> 96  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 96  
 Gly Arg Ile Phe Trp Ser Asp Ala Thr Gln Gly Lys Thr Trp Ser Ala  
   1                  5                  10                  15  
 Phe Gln Asn Gly Thr Asp Arg Arg Val Phe Asp Ser Ser Ile Ile  
                   20                  25                  30  
 Leu Thr Glu Thr Ile Ala Ile Asp Trp Val  
           35                  40

<210> 97  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 97  
 Arg Asn Leu Tyr Trp Thr Asp Tyr Ala Leu Glu Thr Ile Glu Val Ser  
   1                  5                  10                  15  
 Lys Ile Asp Gly Ser His Arg Thr Val Leu Ile Ser Lys Asn Leu Thr  
                   20                  25                  30  
 Asn Pro Arg Gly Leu Ala Leu Asp Pro Arg  
           35                  40

<210> 98  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 98  
 His Leu Leu Phe Trp Ser Asp Trp Gly His His Pro Arg Ile Glu Arg  
   1                  5                  10                  15

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Ala Ser Met Asp Gly Ser Met Arg Thr Val Ile Val Gln Asp Lys Ile  
20 25 30

Phe Trp Pro Cys Gly Leu Thr Ile Asp Tyr Pro  
35 40

<210> 99  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 99  
Gly Lys Leu Tyr Trp Ser Asp Gln Gly Thr Asp Ser Gly Val Pro Ala  
1 5 10 15

Lys Ile Ala Ser Ala Asn Met Asp Gly Thr Ser Val Lys Thr Leu Phe  
20 25 30

Thr Gly Asn Leu Glu His Leu Glu Cys Val Thr Leu Asp Ile Glu  
35 40 45

<210> 100  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 100  
Gln Lys Leu Tyr Trp Ala Val Thr Gly Arg Gly Val Ile Glu Arg Gly  
1 5 10 15

Asn Val Asp Gly Thr Asp Arg Met Ile Leu Val His Gln Leu Ser His  
20 25 30

Pro Trp Gly Ile Ala Val His  
35

<210> 101  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 101  
Arg Tyr Leu Phe Trp Ala Asp Tyr Gly Gln Arg Pro Lys Ile Glu Arg  
1 5 10 15

Ser Phe Leu Asp Cys Thr Asn Arg Thr Val Leu Val Ser Glu Gly Ile  
20 25 30

Val Thr Pro Arg Gly Leu Ala Val Asp Arg Ser  
35 40



<210> 102  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 102  
 Gly Tyr Leu Tyr Trp Ala Asp Trp Asp Thr His Ala Lys Ile Glu Arg  
   1                  5                  10                  15  
 Ala Thr Leu Gly Gly Asn Phe Arg Val Pro Ile Val Asn Ser Ser Leu  
                   20                  25                  30  
 Val Met Pro Ser Gly Leu Thr Leu Asp Tyr Glu  
           35                  40

<210> 103  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 103  
 Asp Leu Leu Tyr Trp Val Asp Ala Ser Leu Gln Arg Ile Glu Arg Ser  
   1                  5                  10                  15  
 Thr Leu Thr Gly Val Asp Arg Glu Val Ile Val Asn Ala Ala Val His  
                   20                  25                  30  
 Ala Phe Gly Leu Thr Leu Tyr  
           35

<210> 104  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 104  
 Lys Arg Leu Tyr Trp Ile Asp Thr Gln Arg Gln Val Ile Glu Arg Met  
   1                  5                  10                  15  
 Phe Leu Asn Lys Thr Asn Lys Glu Thr Ile Ile Asn His Arg Leu Pro  
                   20                  25                  30  
 Ala Ala Glu Ser Leu Ala Val Asp Trp Val  
           35                  40

<210> 105  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 105  
 Arg Lys Leu Tyr Trp Leu Asp Ala Arg Leu Asp Gly Leu Phe Val Ser  
   1                  5                  10                  15

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Asp Leu Asn Gly Gly His Arg Arg Met Leu Ala Gln His Cys Val Asp  
20 25 30

Ala Asn Asn Thr Phe Cys Phe Asp Asn Pro Arg Gly Leu Ala Leu His  
35 40 45

Pro Gln  
50

<210> 106  
<211> 43  
<212> PRT  
<213> Homo sapiens

<400> 106  
Gly Tyr Leu Tyr Trp Ala Asp Trp Gly His Arg Ala Tyr Ile Gly Arg  
1 5 10 15

Val Gly Met Asp Gly Thr Asn Lys Ser Val Ile Ile Ser Thr Lys Leu  
20 25 30

Glu Trp Pro Asn Gly Ile Thr Ile Asp Tyr Thr  
35 40

<210> 107  
<211> 41  
<212> PRT  
<213> Homo sapiens

<400> 107  
Asp Leu Leu Tyr Trp Ala Asp Ala His Leu Gly Tyr Ile Glu Tyr Ser  
1 5 10 15

Asp Leu Glu Gly His His Arg His Thr Val Tyr Asp Gly Ala Leu Pro  
20 25 30

His Pro Phe Ala Ile Thr Ile Phe Glu  
35 40

<210> 108  
<211> 42  
<212> PRT  
<213> Homo sapiens

<400> 108  
Asp Thr Ile Tyr Trp Thr Asp Trp Asn Thr Arg Thr Val Glu Lys Gly  
1 5 10 15

Asn Lys Tyr Asp Gly Ser Asn Arg Gln Thr Leu Val Asn Thr Thr His  
20 25 30

Arg Pro Phe Asp Ile His Val Tyr His Pro  
35 40

<210> 109  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 109  
 Arg His Ile Tyr Trp Ser Asp Val Lys Asn Lys Arg Ile Glu Val Ala  
 1 5 10 15  
 Lys Leu Asp Gly Arg Tyr Arg Lys Trp Leu Ile Ser Thr Asp Leu Asp  
 20 25 30  
 Gln Pro Ala Ala Ile Ala Val Asn Pro Lys  
 35 40

<210> 110  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 110  
 Gly Leu Met Phe Trp Thr Asp Trp Gly Lys Glu Pro Lys Ile Glu Ser  
 1 5 10 15  
 Ala Trp Met Asn Gly Glu Asp Arg Asn Ile Leu Val Phe Glu Asp Leu  
 20 25 30  
 Gly Trp Pro Thr Gly Leu Ser Ile Asp Tyr Leu  
 35 40

<210> 111  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 111  
 Asp Arg Ile Tyr Trp Ser Asp Phe Lys Glu Asp Val Ile Glu Thr Ile  
 1 5 10 15  
 Lys Tyr Asp Gly Thr Asp Arg Arg Val Ile Ala Lys Glu Ala  
 20 25 30

<210> 112  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 112  
 Cys Leu His Asn Asn Gly Gly Cys Ser His Ile Cys Thr Asp Leu Lys  
 1 5 10 15  
 Ile Gly Phe Glu Cys Thr Cys Pro Ala Gly Phe Gln Leu Leu Asp Gln  
 20 25 30

Lys Thr Cys  
35

<210> 113  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 113  
Lys Asp Cys Glu Lys Asp Gln Phe Gln Cys Arg Asn Glu Arg Cys Ile  
1 5 10 15  
Pro Ser Val Trp Arg Cys Asp Glu Asp Asp Asp Cys Leu Asp His Ser  
20 25 30  
Asp Glu Asp Asp Cys Pro Lys  
35

<210> 114  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 114  
Gly Thr Cys Arg Gly Asp Glu Phe Gln Cys Gly Asp Gly Thr Cys Val  
1 5 10 15  
Leu Ala Ile Lys His Cys Asn Gln Glu Gln Asp Cys Pro Asp Gly Ser  
20 25 30  
Asp Glu Ala Gly Cys Leu Gln  
35

<210> 115  
<211> 39  
<212> PRT  
<213> Homo sapiens

<400> 115  
Lys Glu Cys Glu Lys Asp Gln Phe Gln Cys Arg Asn Glu Arg Cys Ile  
1 5 10 15  
Pro Ser Val Trp Arg Cys Asp Glu Asp Asp Asp Cys Leu Asp His Ser  
20 25 30  
Asp Glu Asp Asp Cys Pro Lys  
35

<210> 116  
<211> 41  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 116

Lys Thr Cys Ala Asp Ser Asp Phe Thr Cys Asp Asn Gly His Cys Ile  
 1 5 10 15

His Glu Arg Trp Lys Cys Asp Gly Glu Glu Glu Cys Pro Asp Gly Ser  
 20 25 30

Asp Glu Ser Glu Ala Thr Cys Thr Lys  
 35 40

&lt;210&gt; 117

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

Ser His Lys Cys Val Pro Ala Ser Trp Arg Cys Asp Gly Glu Lys Asp  
 1 5 10 15

Cys Glu Gly Gly Ala Asp Glu Ala Gly Cys Ala Thr  
 20 25

&lt;210&gt; 118

&lt;211&gt; 37

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

Cys Ala Pro His Glu Phe Gln Cys Gly Asn Arg Ser Cys Leu Ala Ala  
 1 5 10 15

Val Phe Val Cys Asp Gly Asp Asp Asp Cys Gly Asp Gly Ser Asp Glu  
 20 25 30

Arg Gly Cys Ala Asp  
 35

&lt;210&gt; 119

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

Pro Ala Cys Gly Pro Arg Glu Phe Arg Cys Gly Gly Asp Gly Gly Gly  
 1 5 10 15

Ala Cys Ile Pro Glu Arg Trp Val Cys Asp Arg Gln Phe Asp Cys Glu  
 20 25 30

Asp Arg Ser Asp Glu Ala Ala Glu Leu Cys Gly Arg  
 35 40

<210> 120  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 120  
 Ala Ala Cys Ala Thr Val Ser Gln Phe Ala Cys Arg Ser Gly Glu Cys  
 1 5 10 15  
 Val His Leu Gly Trp Arg Cys Asp Gly Asp Arg Asp Cys Lys Asp Lys  
 20 25 30  
 Ser Asp Glu Ala Asp Cys Pro Leu  
 35 40

<210> 121  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 121  
 Asn Arg Ile Tyr Trp Cys Asp Leu Ser Tyr Arg Lys Ile Tyr Ser Ala  
 1 5 10 15  
 Tyr Met Asp Lys Ala Ser Asp Pro Lys Glu Gln Glu Val Leu Ile Asp  
 20 25 30  
 Glu Gln Leu His Ser Pro Glu Gly Leu Ala Val Asp Trp Val  
 35 40 45

<210> 122  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 122  
 Asn Arg Ile Tyr Trp Cys Asp Leu Ser Tyr Arg Lys Ile Tyr Ser Ala  
 1 5 10 15  
 Tyr Met Asp Lys Ala Ser Asp Pro Lys Glu Arg Glu Val Leu Ile Asp  
 20 25 30  
 Glu Gln Leu His Ser Pro Glu Gly Leu Ala Val Asp Trp Val  
 35 40 45

<210> 123  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 123  
 Lys His Ile Tyr Trp Thr Asp Ser Gly Asn Lys Thr Ile Ser Val Ala  
 1 5 10 15



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<210> 127

<211> 4

<212> PRT

<213> Homo sapiens

<400> 127

Tyr Trp Thr Asp

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